TABLE OF CONTENTS

Volume 56

ARTICLES

ANDRÉN, ANDERS / A TKE-Dissipation Model for the Atmospheric Boundary Layer 207

BATCHVAROVA, EKATERINA and SVEN-ERIK GRYNING / Applied Model for the Growth of the Daytime Mixed Layer 261

BOTT, ANDREAS / On the Influence of the Physico-Chemical Properties of Aerosols on the Life Cycle of Radiation Fogs 1

CHALIKOV, DMITRY V. and VLADIMIR K. MAKIN / Models of the Wave Boundary Layer 83

GRANT, A. L. M. / Surface Drag and Turbulence over an Inhomogeneous Land Surface 309

HOUSIADAS, C., G. T. AMANATIDIS, and J. G. BARTZIS / Prediction of Orographic Precipitation Using Cartesian Coordinates and a Single Prognostic Equation for the Water Substance 245

HUANG, CHING-YUANG and SETHU RAMAN / Numerical Simulation of January 28 Cold Air Outbreak during *Gale* Part II: The Mesoscale Circulation and Marine Boundary Layer 51

JOHNSON, G. T., T. R. OKE, T. J. LYONS, D. G. STEYN, I. D. WATSON, and J. A. VOOGT / Simulation of Surface Urban Heat Islands under 'Ideal' Conditions at Night Part 1: Theory and Tests against Field Data 275

MARTIN, T. and S. BAKAN / Airplane Investigation of a Case of Convective Cloud Bands over the North Sea 359

VINEY, NEIL R. / An Empirical Expression for Aerodynamic Resistance in the Unstable Boundary Layer 381

NAOT, O. and Y. MAHRER / Two-Dimensional Microclimate Distribution within and above a Crop Canopy in an Arid Environment: Modeling and Observational Studies 223

NOVAK, MICHAEL D. / Application of a Mixed-Layer Model to Bare Soil Surfaces 141

OKE, T. R., G. T. JOHNSON, D. G. STEYN, and I. D. WATSON / Simulation of Surface Urban Heat Islands under 'Ideal' Conditions at Night Part 2: Diagnosis of Causation 339

PARASNIS, SURENDRA S. / Convective Mixing in the Monsoon Boundary Layer 395

RUCK, R. and E. ADAMS / Fluid Mechanical Aspects of the Pollutant Transport to Coniferous Trees 163

SORBJAN, ZBIGNIEW, RICHARD L. COULTER, and MARVIN L. WESLEY / Similarity Scaling Applied to Sodar Observations of the Convective Boundary Layer above an Irregular Hill 33

ZHONG, SHIYUAN, JOHN M. LEONE, JR., and EUGENE S. TAKLE / Interaction of the Sea Breeze with a River Breeze in an Area of Complex Coastal Heating 101

CORRESPONDENCE

XU, DAPENG and PETER TAYLOR / A Note on the Mixed Spectral Finite-Difference Model Equations 205

RESEARCH NOTES

KAIMAL, J. C. and J. E. GAYNOR / Another Look at Sonic Thermometry 401
KUMAR, HAREESH P. V., N. MOHAN KUMAR, and BASIL MATHEW / Insolation over the Arabian Sea during the Southwest Monsoon 197
SMEDMAN, ANN-SOFI, KNUT LUNDIN, HANS BERGSTRÖM, and ULF HÖGSTRÖM / A Precision Kite or Balloon-Borne Mini-Sonde for Wind and Turbulence Measurements 295